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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number. Attorney Docket ISHI 20.887 Number **DECLARATION FOR UTILITY OR** First Named Inventor Mingyao XU, et. al. **DESIGN** COMPLETE IF KNOWN PATENT APPLICATION (37 CFR 1.63) **Application Number** Filing Date Declaration Declaration Submitted after initial Submitted Art Unit With Initial Filing (surcharge Filling (37 CFR 1.16 (e)) **Examiner Name** (beriuper I hereby declare that: Each inventor's residence, mailing address, and citizenship are as stated below next to their name. I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled: REDUCED TORQUE VALVE FOR CRYOGENIC REFRIGERATOR (Title of the Invention) the specification of which is attached hereto was filed on (MM/DD/YYYY) January 20, 2005 as United States Application Number or PCT International (if applicable). and was amended on (MM/DD/YYYY) Application Number PCT/US2005/001617 I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application. I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 365(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed. **Prior Foreign Application** Foreign Filing Date **Priority Certified Copy Attached?** Country **Not Claimed** Number(s) (MM/DD/YYYY) Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

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DECLARATION — Utility or Design Patent Application

					Fred Silvers Nation
correspondence to:	address ociated with stomer Number:	263	04	OR	Correspondence address below
Name					
Address		. :			
City			State		ZIP
Country	Telepho	one		Email	
the USPTO to support a petition the USPTO, petitioners/applicar them to the USPTO. Petitioner publication of the application (ur or issuance of a patent. Furth application is referenced in a authorization forms PTO-2038 publicly available. I hereby declare that all statem and belief are believed to be	n or an application. If the should consider redain should consider redain applicant is advised in less a non-publication armore, the record from published application submitted for payment and further that the are punishable by fin	this type of pacting such that the recrequest in contact an abandor an issue purposes and your knows these states or imprison	personal in personal in personal in ord of a prompilance oned appliced patent re not retain ledge are thements we onment, or	formation is inclusion from the application with 37 CFR 1:2-cation may also (see 37 CFR 1 aned in the application may also in the application may also from the application may be applied the application of the application and that all some made with the application and that all some made with the application application and that all some made with the application application and the application application and the application application and the application application application application and the application applination application application application application applicatio	t purposes) is never required by ided in documents submitted to ne documents before submitting is available to the public after 13(a) is made in the application) be available to the public if the 14). Checks and credit card atton file and therefore are not statements made on information he knowledge that willful false I.S.C. 1001 and that such willful
NAME OF SOLE OR FIRST IN		Ap	etition has		unsigned inventor
Given Name (first and middle [if	any])			Family Name of	r Sumame
Mingyao				XU	
Inventor's Signature		·	,		Date
Residence: City	State		Country		Citizenship
Emmaus	Pennsylvania		United St	ates of America	China
Mailing Address 130 Cold Stream Court					
City Emmaus	State Pennsylvania		Zip 18	049	Country United States of America
Additional Immedian on a local and		*	augala-	antal about(a) DTO/S	B/02A or 02i R attached hereto

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DECLARATION	ADDITIONAL INVENTOR(S) Supplemental Sheet Page 3 of 3						
Name of Additional Joint Inventor, if any:		A petition h	nas been filed for this unsi	gned Inventor			
Given Name (first and middle (if any))	Family Name or	Surname					
Jin Lin	GAO						
Inventor's Signature				Date			
Residence: City	State	Cou	United States of America	China Citizenship			
C/o SHI-APD CRYOGEN	IICS, INC.,	1833 Vultee	Street				
City Allentown	Penns	ylvania	_{Zip} 18103-4783	Country United States of America			
Name of Additional Joint Inventor, if any		A petition	has been filed for this uns	signed Inventor			
Given Name (first and middle (if any))			Family Name or Su	mame			
Eric		SEITZ					
Inventor's Signature				Date			
Residence: City	State		United States of A	umerica United States of America Citizenship			
c/o SHI-APD CRYOGE	NICS, INC.	, 1833 Vulte	e Street				
Allentown	State Penns	sylvania	_{Zlp} 18103-4783	United States of America Country			
Name of Additional Joint Inventor, if any	/ :	A petition	has been filed for this un	signed inventor			
Given Name (first and middle (if any))	Family Name or Surname						
Motokazu	SAITO						
Inventor's Instabage Sert	₽	` :		Date 18/05/06			
Residence: City Allentoun	State Penv	isylvania	United States of Country	America Citizenship Japar			
C/o SHI-APD CRYOGEI	NICS, INC.	, 1833 Vulte	e Street				
City Allentown	Penn State	sylvania	18103-4783	United States of Americ Country			

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[Page 1 of 2]

Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

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Address								
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Country	Telepho	ne		Ema	ıil			
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I hereby declare that all statement and belief are believed to be statements and the like so mad false statements may jeopardize	true; and further that le are punishable by fine	these state or impriso	ements were in nment, or both	made with t n, under 18 t	the know	wledge that willful false		
NAME OF SOLE OR FIRST IN	VENTOR:	☐ A ne	etition has beer	n filed for this	- uneign	ad inventor		
Given Name (first and middle [if	any])			mily Name of				
Mingyao	•		χι	•				
Inventor's Signature			•			Date		
Residence: City	State		Country		Citizen	ship		
Emmaus	Pennsylvania United State			States of America China				
Mailing Address 130 Cold Stream Court								
City Emmaus	State Pennsylvania		Zip 18049	9	1	Country United States of America		
Additional inventors or a legal representative are being named on the supplemental sheet(s) PTO/SB/02A or 02LR attached hereto								

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DECLARATION			ADDITIONAL INVENTOR(S) Supplemental Sheet Page 3 of of				
Name of Additional Joint Inventor, if an	v:	A pet	tition h	nas been filed for this ur			
Given Name (first and middle (if any)		Family Nam	ne or S	Surname			
Jin Lin		GAO					
Inventor's Signature	2				Date 5-15-06		
Residence: City	State		Cou	United States of America	USA		
c/o SHI-APD CRYOGE	NICS, INC.	, 1833 Vu	ltee	Street			
_{City} Allentown	Pennsylvania State			_{Zip} 18103-4783	Count	try United States of America	
Name of Additional Joint Inventor, if an	y:	A petition has been filed for this unsigned inventor					
Given Name (first and middle (if any))	Family Name or Surname					
Eric		SEITZ					
Inventor's Signature	Ďate						
Residence: City	State			United States of America		United States of America Citizenship	
c/o SHI-APD CRYOGENICS, INC., 1833 Vultee Street							
Allentown City	State Pennsylvania			_{Zip} 18103-4783	Count	United States of America	
Name of Additional Joint Inventor, if an	y:	A pet	ition h	nas been filed for this un	nsigned	inventor	
Given Name (first and middle (if any))	Family Name or Surname						
Motokatsu	SAITO						
Inventor's Signature					Date		
Residence: City	State			United States of A	America	_{Citizenship} Japan	
c/o SHI-APD CRYOGENICS, INC., 1833 Vultee Street							
Alléntown _{City}	Penns State	ylvania		18103-4783	Count	United States of America	

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DECLARATION FOR UTILITY OR	Attorney Docket Number	ISHI 20.887					
DESIGN	First Named Inventor	Mingyao XU, et. al.					
PATENT APPLICATION	СОМ	PLETE IF KNOWN					
(37 CFR 1.63)	Application Number						
Declaration Declaration	Filing Date						
Submitted OR Submitted after Initial With Initial Filing (surcharge	Art Unit						
Filing (37 CFR 1.16 (e))	Examiner Name						
required)	Examiner Name						
I hereby declare that:							
Each inventor's residence, mailing address, and citizenship are	an atotad halaw navt to th						
I believe the inventor(s) named below to be the original and firs which a patent is sought on the invention entitled:	t inventor(s) of the subject	matter which is claimed and for					
the specification of which	e Invention)	K					
is attached hereto							
OR							
was filed on (MM/DD/YYYY) January 20, 2005	as United States Appl	lication Number or PCT International					
Application Number PCT/US2005/001617 and was amende	ed on (MM/DD/YYYY)	(if applicable).					
I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.							
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Prior Foreign Application Foreign Filing Date **Priority Certified Copy Attached?** Country Number(s) (MM/DD/YYYY) **Not Claimed** Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

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City			State			ZIP	
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	1.	VARNIN	C.		-		
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statements and the like so mad false statements may jeopardize	e the validity of the applic	ation or any	patent issue	ed thereon.	1.0.0	JUT and that such winds	
NAME OF SOLE OR FIRST IN	IVENTOR:		tition has bee	en filed for this			
Given Name (first and middle [if	f any])			amily Name or			
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Inventor's Signature			<u></u>			Date	
hugge	2					5/11/06	
Residence: City	State		Country		Citizens		
Emmaus	Pennsylvania		United State	s of America	China	a	
Mailing Address 130 Cold Stream Court	:						
City Emmaus	State Pennsylvania		Zip 1804	19		Country United States of America	
Additional inventors or a legal representative are being named on the							

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DECLARATION		Supplemental Sheet Page 3 of 3						
Name of Additional Joint Inventor, if any	A petition has been filed for this unsigned inventor							
Given Name (first and middle (if any))		Family Name or Surname						
Jin Lin		GAO				·		
Inventor's Signature			Date					
Residence: City	State		Cou	United States of America	Citize	China _{nship}		
c/o SHI-APD CRYOGE Mailing Address	NICS, INC.,	1833 Vu	ltee	Street				
_{City} Allentown	Penns:	ylvania		Z _{ip} 18103-4783	Country United States of America			
Name of Additional Joint Inventor, if any	y:	A pet	tition h	has been filed for this ur	nsigned	inventor		
Given Name (first and middle (if any)))			Family Name or Su	umame			
Eric SEITZ								
Inventor's Signature					ر Date	5/11/06		
Residence: City	State			United States of A	America	United States of America Citizenship		
c/o SHI-APD CRYOGE	NICS, INC.,	, 1833 Vι	ıltee	Street				
City Allentown	State Penns	sylvania		_{Zip} 18103-4783	United States of America			
Name of Additional Joint Inventor, if any	y:	A pet	ition h	nas been filed for this un	nsigned	inventor		
Given Name (first and middle (if any))			Family Name or Surname					
Motokatsu SAITO								
Inventor's Signature			Date					
Residence: City	State			United States of A	_{Citizenship} Japan			
c/o SHI-APD CRYOGENICS, INC., 1833 Vultee Street								
Allentown	Pennsylvania State			18103-4783	Count	United States of America		

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